

Chapter 5 Review

Vocabulary and Concept Check

✓ Choose the letter of the term or number that best matches each phrase.

- | | | |
|---|-------|-----------------------|
| 1. a common multiple of the denominators of two or more fractions | _____ | a. ratio |
| 2. a fraction in which the <i>GCF</i> of the numerator and the denominator is 1 | _____ | b. simplest form |
| 3. a ratio that compares a number to 100 | _____ | c. common denominator |
| 4. a whole number greater than 1 that has exactly two factors, 1 and itself | _____ | d. percent |
| 5. a comparison of two numbers by division | _____ | e. prime number |
| | | f. multiple |
| | | g. bar notation |

5.1 Prime Factorization

✓ Determine whether each number is *prime* or *composite*.

45	37	51
91	118	7

✓ Find the prime factorization (factor tree) of each number.

54
^

128
^

68
^

5.2 Greatest Common Factor (GCF)

✓ Find the *GCF* of each set of numbers.

18:	30:	28:
27:	72:	70:
		98:

GCF:

GCF:

GCF:

(OVER)

5.3 Simplifying Fractions

- ✓ Write each fraction in simplest form.

$$\frac{12}{15}$$

$$\frac{55}{110}$$

$$\frac{14}{63}$$

$$\frac{11}{121}$$

5.4 Fractions and Decimals

- ✓ Write each fraction or mixed number as a decimal. Use bar notation if the decimal is a repeating decimal.

$$\frac{3}{4}$$

$$1\frac{6}{7}$$

$$\frac{5}{9}$$

$$6\frac{2}{5}$$

- ✓ Write each decimal as a fraction in simplest form.

0.05

0.18

0.54

0.08

5.5 Fractions and Percents

- ✓ Write each fraction as a percent

$$\frac{32}{100}$$

$$\frac{47}{50}$$

$$\frac{8}{20}$$

- ✓ Write each percent as a fraction in simplest form.

68%

95%

42%

16%

5.6 Percents and Decimals

- ✓ Write each percent as a decimal

48%

12.5%

7%

$75\frac{1}{4}\%$

- ✓ Write each decimal as a percent.

0.61

0.055

0.19

0.999

(OVER)

